

31 January 1964

MEMORANDUM FOR THE RECORD

- # 217
1. SUBJECT: PAR (Unassigned), Contract No. [ ] "Optimization of the Laser". 25X1
2. REFERENCES: a. [ ] Quarterly Report, Contract [ ] Second Quarter FY-64. 25X1
3. ENCLOSURE: (1) "Optimization of a Laser to be used for Exposure of Photographic Materials."
4. ACTION REQUIRED: The investigation proposed in paragraph B of the Study Program Objective for PAR #216 in reference a. should be proposed as a separate project. Some additions to the objectives are needed.
5. ACTION TAKEN: Existing objectives have been reviewed and expanded. A statement of the proposed research has been compiled and is contained in enclosure (1).
6. COORDINATION: Not Applicable
7. COPIES TO: [ ] 25X1

Technical Representative

Declass Review by NIMA/DOD

31 January 1964

Optimization of A Laser To Be Used For Exposure of Photographic Materials

The suggested program described under Item B "Optimization of the Laser" in the Study Program Objective for PAR #216 appears sound and should serve as a basis for a new Research objective of broader scope. Incorporated into this expanded scope should be:

1. Investigation into low-energy, continuous emission solid state lasers with the ultimate goal of finding a greatly simplified laser source for use in exposing sensitized materials.
2. Since visual inspection of the image prior to exposure is very important in some applications, investigation should be directed toward this area. To be determined are: the best method or technique for doing this and the best laser and/or spectral range to implement it.
3. Part of this project, a continuous survey should be made of new materials and techniques as these discoveries are announced in the technical literature and at scientific society meetings.
4. Investigate the use of lasers as illumination sources, to be used in scanning mode, in rear projection viewers.